ENTERED

RAW SEQUENCE LISTING   DATE: 06/14/2002
PATENT APPLICATION: US/09/970,088   TIME: 15:53:33

        Input Set : A:\71415062.app
        Output Set: N:\CRF3\06142002\I970088.raw

```
  3 <110> APPLICANT: GRAVEREAUX, EDWIN C.
  4        SILVER, MARCY
  5        ISNER, JEFFREY M.
  6        YOON, YOUNG-SUP
  8 <120> TITLE OF INVENTION: USE OF LYMPHANGIOGENIC AGENTS TO TREAT LYMPHATIC
  9        DISORDERS
 11 <130> FILE REFERENCE: 71417/55062
 13 <140> CURRENT APPLICATION NUMBER: 09/970,088
 14 <141> CURRENT FILING DATE: 2001-10-02
 16 <150> PRIOR APPLICATION NUMBER: 60/237,171
 17 <151> PRIOR FILING DATE: 2000-10-02
 19 <160> NUMBER OF SEQ ID NOS: 14
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 8
 25 <212> TYPE: PRT
 26 <213> ORGANISM: Artificial Sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
 30        peptide
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 34   1               5
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 38 <211> LENGTH: 7
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 40 <213> ORGANISM: Artificial Sequence
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
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 52 <211> LENGTH: 24
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Artificial Sequence
 56 <220> FEATURE:
 57 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 58        oligonucleotide
 60 <220> FEATURE:
 61 <221> NAME/KEY: modified_base
 62 <222> LOCATION: (18)
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     70 <211> LENGTH: 21
     71 <212> TYPE: DNA
     72 <213> ORGANISM: Artificial Sequence
     74 <220> FEATURE:
     75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     76        oligonucleotide
     78 <400> SEQUENCE: 4
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     83 <211> LENGTH: 21
     84 <212> TYPE: DNA
     85 <213> ORGANISM: Artificial Sequence
     87 <220> FEATURE:
     88 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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     95 <211> LENGTH: 21
     96 <212> TYPE: DNA
     97 <213> ORGANISM: Artificial Sequence
     99 <220> FEATURE:
    100 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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    107 <211> LENGTH: 420
    108 <212> TYPE: DNA
    109 <213> ORGANISM: Oryctolagus cuniculus
    111 <400> SEQUENCE: 7
    112 cggtgcgcgg tggccggggc acacgtgccc agcatcgtat ggtacaaaga tgagaggctg 60
    113 ctgcaagaag aatctggaat cgacctcgcg gactcgaacc agaggctgag catccagcgc 120
    114 gtgcgcgagg aggacgcggg ccgctatctg tgcagcgtgt gcaacgccaa gggctgcgtc 180
    115 aactcctccg ccagcgtagc tgtgggaggc gccgaagata gaggcagcat ggagatcgtg 240
    116 atcctcgtgg gcaccggcgt cattgccgtg ttcttttggg tcctcctcct gctcatcttc 300
    117 tgtaacatga ggaggccagc ccacgccgac atcaagacgg gctacttgtc catcatcatg 360
    118 gatcccggag aggtgcctct ggaggagcaa tgtgaatacc tgtcctacga cgccagccag 420
    121 <210> SEQ ID NO: 8
    122 <211> LENGTH: 420
    123 <212> TYPE: DNA
    124 <213> ORGANISM: Bos sp.
    126 <400> SEQUENCE: 8
    127 cggtgcccag tggctgggac gcacgtaccc agcatcgtgt ggtacaaaga tgagaagctg 60
    128 ctggaagaag agtccggaat cgacctggcg gactcgaacc agaggctgag catccagcgc 120
    129 gtgcgcgagg aggacgcggg ccactatctg tgcagtgtgt gcaacgccaa gggctgtgtc 180
    130 aactcctctg ccagcgtggc tgtggaaggc tctgaggata aaggcagcat ggagatcgtg 240
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131 atccttgttg gcaccggagt catcgctgtc tttttctggg tcctccttct cctcatcttc 300
132 tgtaacatga ggaggccaac ccatgcagac atcaagactg gctacttgtc catcatcatg 360
133 gaccccgggg aggtgccttt ggaggagcag tgtgaatacc tgtcctacga tgctagtcaa 420
136 <210> SEQ ID NO: 9
137 <211> LENGTH: 420
138 <212> TYPE: DNA
139 <213> ORGANISM: Homo sapiens
141 <400> SEQUENCE: 9
142 cagtgcttgg tggccggagc gcacgcgccc agcatcgtgt ggtacaaaga cgagaggctg 60
143 ctggaggaaa agtctggagt cgacttggcg gactccaacc agaagctgag catccagcgc 120
144 gtgcgcgagg aggatgcggg acgctatctg tgcagcgtgt gcaacgccaa gggctgcgtc 180
145 aactcctccg ccagcgtggc cgtggaaggc tccgaggata agggcagcat ggagatcgtg 240
146 atccttgtcg gtaccggcgt catcgctgtc ttcttctggg tcctcctcct cctcatcttc 300
147 tgtaacatga ggaggccggc ccacgcagac atcaagacgg gctacctgtc catcatcatg 360
148 gaccccgggg aggtgcctct ggaggagcaa tgcgaatacc tgtcctacga tgccagccag 420
151 <210> SEQ ID NO: 10
152 <211> LENGTH: 420
153 <212> TYPE: DNA
154 <213> ORGANISM: Mus sp.
156 <400> SEQUENCE: 10
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158 ctggagaaag agtcgggaat cgacctggca gactccaatc agaggctgag catccagcgc 120
159 gtgcgcgagg aggacgcagg tcgttatctg tgcacgcgtgt gcaatgccaa gggctgcgta 180
160 aactcctctg ccagcgtggc agtggaaggc tctgaagata aaggcagcat ggagattgtg 240
161 atactcattg gcactggcgt catcgcagtt ttcttctggg tcctcctcct gctcatcttc 300
162 tgtaacatga aaagcctgc ccatgcagac atcaagacgg gctacctgtc catcatcatg 360
163 gaccccgggg aggtgccttt ggaggagcag tgtgaatacc tgtcctatga cgccagccag 420
166 <210> SEQ ID NO: 11
167 <211> LENGTH: 140
168 <212> TYPE: PRT
169 <213> ORGANISM: Oryctolagus cuniculus
171 <400> SEQUENCE: 11
172 Arg Cys Ala Val Ala Gly Ala His Val Pro Ser Ile Val Trp Tyr Lys
173   1               5                  10                  15
175 Asp Glu Arg Leu Leu Gln Glu Glu Ser Gly Ile Asp Leu Ala Asp Ser
176              20                  25                  30
178 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly Arg
179          35                  40                  45
181 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala
182          50                  55                  60
184 Ser Val Ala Val Gly Gly Ala Glu Asp Arg Gly Ser Met Glu Ile Val
185   65                  70                  75                  80
187 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Tyr Leu Leu
188              85                  90                  95
190 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Ala His Ala Asp Ile Lys
191              100                 105                 110
193 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu
194          115                 120                 125
196 Glu Gln Cys Glu Tyr Leu Ser Tyr Asp Ala Ser Gln
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197     130                    135                    140
200 <210> SEQ ID NO: 12
201 <211> LENGTH: 140
202 <212> TYPE: PRT
203 <213> ORGANISM: Bos sp.
205 <400> SEQUENCE: 12
206 Arg Cys Pro Val Ala Gly Thr His Val Pro Ser Ile Val Trp Tyr Lys
207   1               5                   10                  15
209 Asp Glu Lys Leu Leu Glu Glu Glu Ser Gly Ile Asp Leu Ala Asp Ser
210              20                  25                  30
212 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly His
213          35                  40                  45
215 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala
216      50                  55                  60
218 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val
219  65                  70                  75                  80
221 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Tyr Leu Leu
222              85                  90                  95
224 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Thr His Ala Asp Ile Lys
225             100                 105                 110
227 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu
228         115                 120                 125
230 Glu Gln Cys Glu Val Leu Ser Tyr Asp Ala Ser Gln
231     130                 135                 140
234 <210> SEQ ID NO: 13
235 <211> LENGTH: 140
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 13
240 Gln Cys Leu Val Ala Gly Ala His Ala Pro Ser Ile Val Trp Tyr Lys
241  1               5                   10                  15
243 Asp Glu Arg Leu Leu Glu Glu Lys Ser Gly Val Asp Leu Ala Asp Ser
244              20                  25                  30
246 Asn Gln Lys Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly Arg
247          35                  40                  45
249 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala
250      50                  55                  60
252 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val
253  65                  70                  75                  80
255 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Tyr Leu Leu
256              85                  90                  95
258 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Ala His Ala Asp Ile Lys
259             100                 105                 110
261 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu
262         115                 120                 125
264 Glu Gln Cys Glu Val Leu Ser Tyr Asp Ala Ser Gln
265     130                 135                 140
268 <210> SEQ ID NO: 14
269 <211> LENGTH: 140
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270 <212> TYPE: PRT
271 <213> ORGANISM: Mus sp.
273 <400> SEQUENCE: 14
274 Arg Cys Pro Val Ala Gly Ala His Val Pro Ser Ile Val Trp Tyr Lys
275   1             5                  10                  15
277 Asp Glu Arg Leu Leu Glu Lys Glu Ser Gly Ile Asp Leu Ala Asp Ser
278             20                  25                  30
280 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly Arg
281           35                  40                  45
283 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala
284     50                  55                  60
286 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val
287   65                  70                  75                  80
289 Ile Leu Ile Gly Thr Gly Val Ile Ala Val Phe Phe Trp Val Leu Leu
290             85                  90                  95
292 Leu Leu Ile Phe Cys Asn Met Lys Arg Pro Ala His Ala Asp Ile Lys
293           100                 105                 110
295 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu
296     115                 120                 125
298 Glu Gln Cys Glu Tyr Leu Ser Tyr Asp Ala Ser Gln
299     130                 135                 140
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 18

VERIFICATION SUMMARY   DATE: 06/14/2002
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Input Set : A:\71415062.app
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L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0